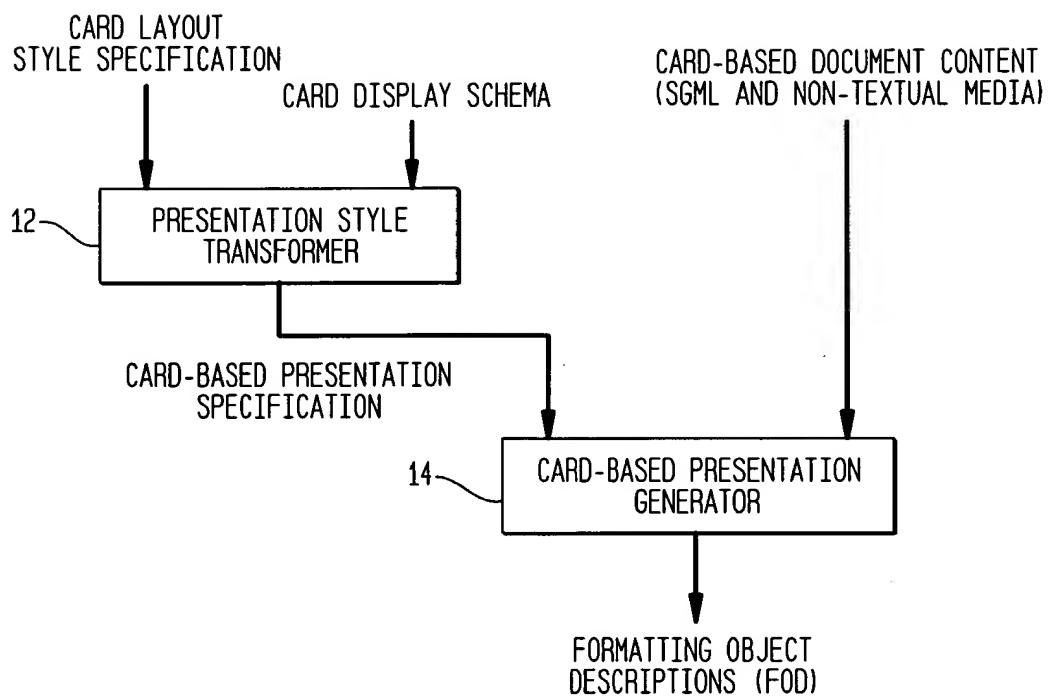


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FIG. 1



*FIG. 2*

```
<CardLayoutStyle Name=name...>
  <Options size=card_size...>...</Options>
  ...
  <BackgroundList>
    <Background name=name Func=function_name>
      <object properety=...></>
    ...
    <Background>
      <Background name=name Func=function_name>
        <object property=...></>
      ...
      <Background>
      ...
    </BackgroundList>...
    <ForegroundList>
      <Foreground name=name Func=function_name>
        <object property=...></>
      ...
      <Foreground>
      ...
    <ForegroundList>
    <CardSeq name=name Context=context Type=type Content=content>
      <Background StyleRef=background_name>
    <CardSeq>
      <CardSeq name=name Context=context Type-type Content=content>
        <Background StyleRef=background_name>
      </CardSeq>
      ...
      <Card name=name Context=context Type=type Content=content>
        <Foreground StyleRef=background_name></>
      </Card>
      <Card name=name Context=context Type=type Content=content>
        <Foreground StyleRef=background_name></>
      </Card>
      ...
    <CardLayoutStyle>
```

**FIG. 3**

```
<CardLayoutStyle Name=name...>
  <Options size=card_size...>...</Options>
  ...
  <BackgroundList>
    <Background name=name Func=function_name>
      <object property=...></>
    </Background>
    <Background name=name Func=function_name>
      <object property=...></>
    </Background>
    ...
  </BackgroundList>...
  <ForegroundList>
    <Foreground name="TextByGfxForeground" Func="TextByGfxForeground">
      <Object Name="TextByGfxTitle"
        Coords="180,1395,1150,1305"
        Type="Field"
        Func="TitleText"
        Context="Card,CardX,CardTitle"
        FontSize="15"
        FontStyle="Bold"
        FontColor="blue"
        Content="CardTitle"></>
    <Object Name="GfxContent"
      Coords="357 94 881 693"
      Type="Graphics"
      Func="GfxContent"
      Context="Card,CardX,AnyDocX,Figure,Graphic"
      Content="Graphic"
      AIU="Card,CardX,AnyDocX,Figure,AIUDoc,ROI"></>
    ...
    </Foreground>
  ...
  <ForegroundList>
    <CardSeq name="TextByGfxSeq" Type="TextByGfx"
      Context="PlantLevel,CardSeq" Content="">
      <Background StyleRef="NormalBackground">
    </CardSeq>
    ...
    <Card name="TextByGfxCard" Type="TextByGfx"
      Context="PlantLevel,CardSeq,Card" Content="">
      <Foreground StyleRef="TextByGfxForeground"></>
    </Card>
    ...
  <CardLayoutStyle>
```

**FIG. 4**

```
<MACRO_Declaration>
  <ObjectGroup name="project_resource">
    MACRO_Resource(stylename, type, filename)</>
    MACRO_Resource(stylename, type, filename)</>
  ...
</ObjectGroup>
  MACRO_name(stylename, parameters)</>
  MACRO_name(stylename, parameters)</>
...
</MACRO_Declaration>
<ContentMapping>
  <ElementRule Context=doc_tags>
    <DefineVar name=...>
    <DefineVar name=...>
    ...
    <CaseExpr key=...>
      <CaseClause matchvalue=...>
        <AddObject otype=...stylename=...>
        <ProcessGrove command=...></>
      ...
      <AddGroup groupname=...></>
    ...
    </AddObject>
  </CaseClause>
  <CaseClause matchvalue=...>
    <AddObject otype=...stylename=...>
    <ProcessGrove command=...></>
  ...
  <AddGroup groupname=...></>
  ...
  </AddObject>
  </CaseClause>
  </CaseExpr>
  </ElementRule>
  <ElementRule...>...</>
...
</ContentMapping>
```

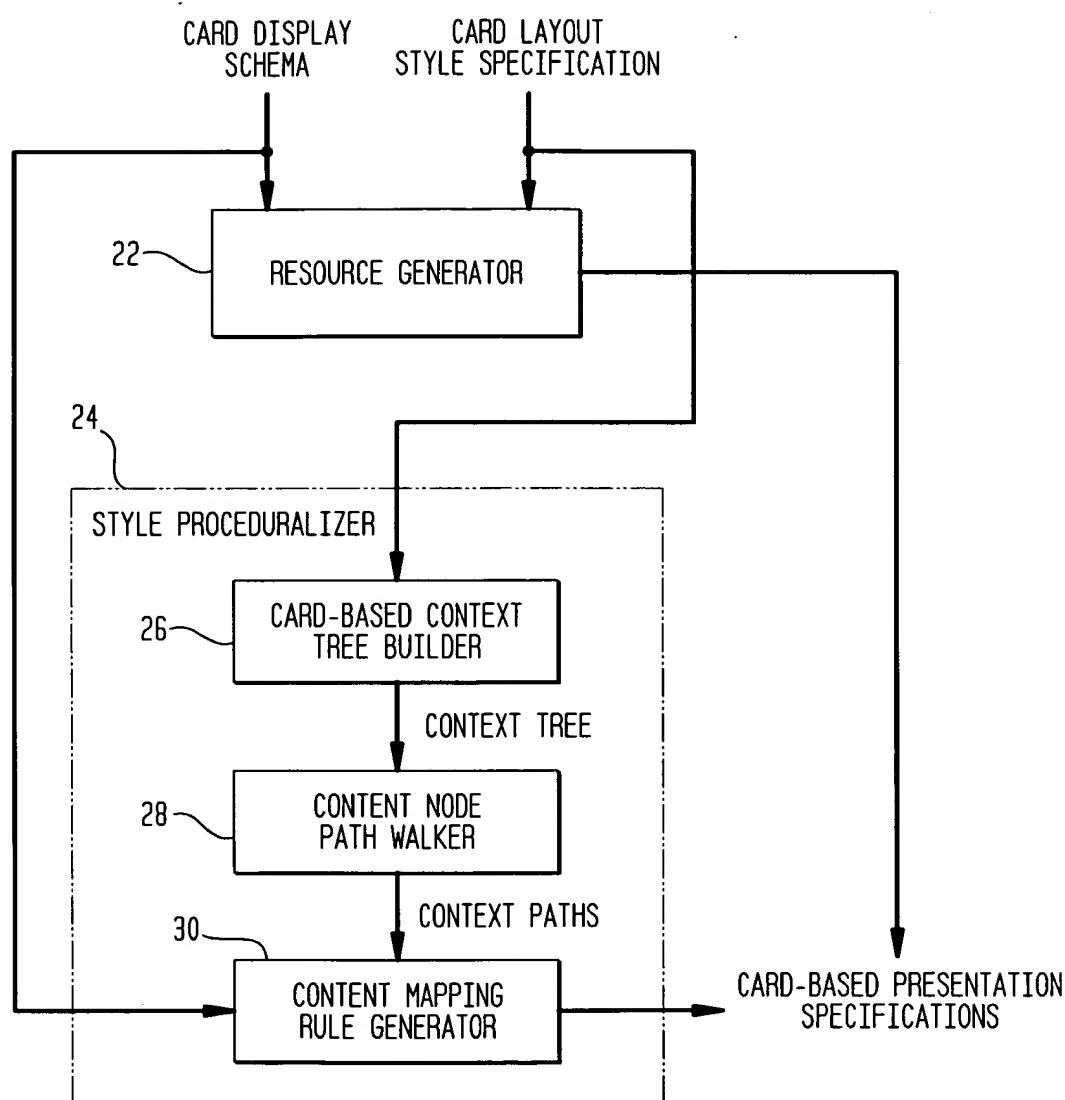
**FIG. 5**

```
<MACRO_Declaration>
...
...
MACRO_TitleField(TextByGfxTitle, "180,1395,1150,1305,$CardTitle_RTF$, 15", "bold", "blue")
...
</MACRO_Declaration>
<ContentMapping>
...
<ElementRule context="(Card CardX)">
<ProcessGrove
    command="process-matching-children CardTitle">
<ProcessGrove
    command="process-matching-children ANYDOCX">
</ElementRule>

<ElementRule context=(Card CardX CardTitle)">
<DefineVar name="$CardTitle_RTF" forvalue="(RTF-TitleGen(current node))"></>

<CaseExpr key="(CardType(current-node))">
    <CaseClause matchvalue="GfxonlyCard">
        <AddObject otype="Field" stylename="GfxOnlyTitle"></>
    </CaseClause>
    <CaseClause matchvalue="TextByGfxtitle">
        <AddObject otype="Field" stylename="TextByGfxTitle"></>
    </CaseClause>
    <CaseClause matchvalue="else">
        <AddObject otype="Field" stylename="TextByGfxTitle"></>
    </CaseClause>
</CaseExpr>
</ElementRule>
<ElementRulk>...</>
...
</ContentMapping>
```

FIG. 6



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*FIG. 7*

```
<DisplaySchema Objecttype="Field" Name="TextByGfxTitle">
    <Argument name="StyleName" type="Required"
        AvailValue="#ANY_UNIQUE_NAME">
    <Argument name="vertices" type="Required"
        AvailValue="#ANY_2POINTS">
    <Argument name="TitleRTF" type="Optional"
        DefaultValue=$CARDTitle_RTF$>
    <Argument name="FontSize" type="Optional"
        DefaultValue="15" AvailValue="#Number">
    <Argument name="Fontstyle" type="Optional"
        DefaultValue="Regular" AvailValue="Bold,Regular,Italic">
    <Argument name="FontColor" type="Optional"
        DefaultValue="Black" AvailValue="#Any_Color_Name or RGB Stroke">
</DisplaySchema>
```

*FIG. 8*

```
<DisplaySchema Objective=object_type Name=macro_name or variable_name>
    <Argument name=...type=...
        DefaultValue=...AvailValue=...>
    <Argument name=...type=...
        DefaultValue=...AvailValue=...>
    <Argument name=...type=...
        DefaultValue=...AvailValue=...>
    ...
</DisplaySchema>
```

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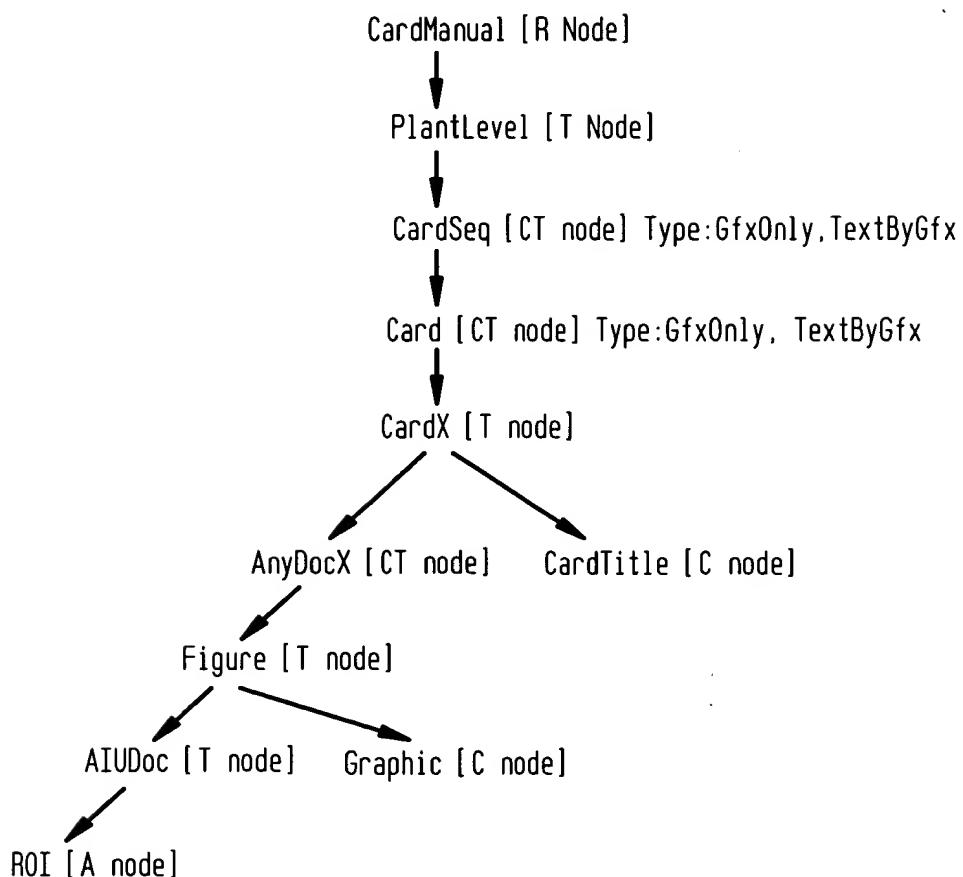
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**FIG. 9**

```
<DisplaySchema Objecttype="DefineVar" Name="$CardTitle_RTF$">
  <Argument name="RTF-Gen" type="Required"
    AvailValue="#ANY-DSSL-FUNC-NANME">
  <Argument name="context" type="Optional"
    DefaultValue="(Card Title)">
</DefaultSchema>
```

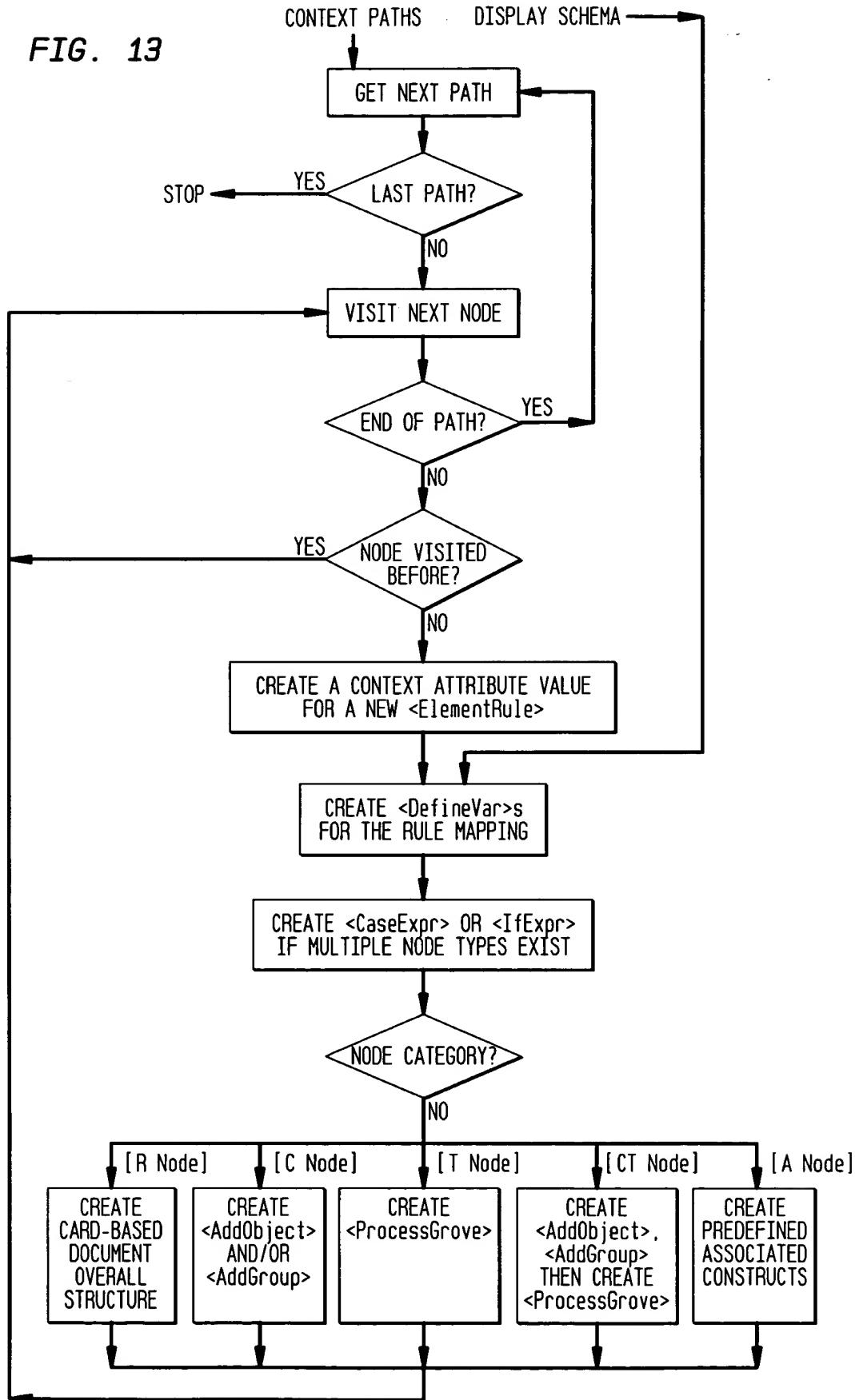
**FIG. 10**

```
<DisplaySchema Objective="Resource" MacroName="MACRO_Resource">
  <Argument name="Format" type="Optional"
    DefaultValue="icon" AvailValue="icon,bitmap,sharedscript,menubar">
  <Argument name="StyleName" type="Required"
    AvailValue="#ANY_UNIQUE_NAME">
  <Argument name="InstanceName" type="Optional"
    DefaultValue="" AvailValue="#ANY_STRING">
  <Argument name="FileName" type="Required"
    AvailValue="#ANY_STRINGr">
</DisplaySchema>
```

**FIG. 11****FIG. 12**

1. CardManual, PlantLevel, CardSeq
2. CardManual, PlantLevel, CardSeq, Card
3. CardManual, PlantLevel, CardSeq, Card, CardX, CardTitle
4. CardManual, PlantLevel, CardSeq, Card, CardX, AnyDocX
5. CardManual, PlantLevel, CardSeq, Card, CardX, AnyDocX, Figure, Graphic
6. CardManual, PlantLevel, CardSeq, Card, CardX, AnyDocX, Figure, AIUDoc, ROI

FIG. 13



**FIG. 14**

(A) Transition Node: CardX

```
<ElementRule context="(Card CardX)">
<ProcessGrove
  command="process-matching-children CARDTITLE"></>
<ProcessGrove
  command="process-matching-children ANYDOCX"></>
<ElementRule>
```

(B) Content Node: CardTitle (See Figure 5)

(C) Content Transition Node: CardSeq

```
<ElementRule context="(PlantLevel CardSeq)">
<DefineVar name="$Page_currentObject$"
  strValue="(currentObjectGen (current-node))" > </>
<DefineVar ...> </>

<CaseExpr key="(cardSeqType (current-node))">
<CaseClause matchval="GfxOnly">
<AddObject otype=Background styleName="GfxOnlyBackground">
<ProcessGrove
  command="process-matching-children CARD"></>
</AddObject>
</CaseClause>

<CaseClause matchval="TextByGfx">
<AddObject otype=Background styleName="NormalBackground">
<AddObject otype=Button styleName="Top"></>
<AddObject otype=Button styleName="First"></>
<AddObject otype=Button styleName="Previous"></>
<AddObject otype=Button styleName="Next"></>
<AddObject otype=Button styleName="Last"></>
<AddObject otype=Button styleName="Audio"></>
<AddObject otype=Button styleName="Animate"></>

<ProcessGrove
  command="process-matching-children CARD"></>
</CaseClause>

</CaseClause matchval="else">
</CaseClause>

</CaseExpr>
</ElementRule>
```

**FIG. 15**

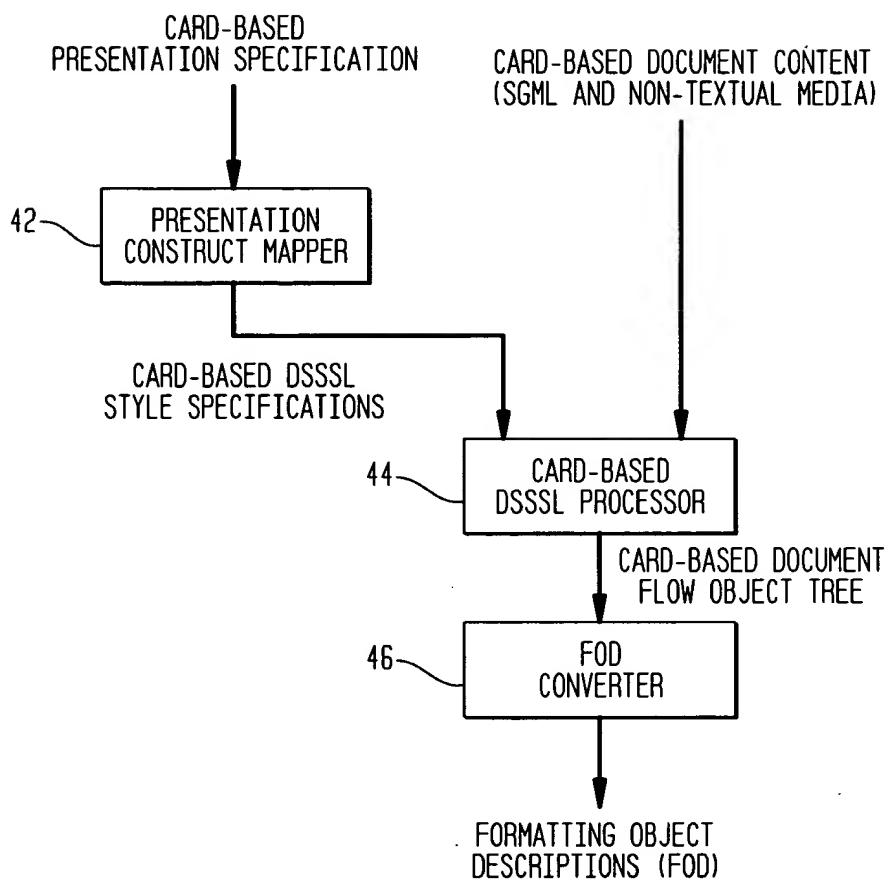
(D) ROOT NODE: CardManual

```
<ElementRule context="CardManual">
  <AddObject otype=CardManualLayout styleName="">
    <DefineVar name="$BookTOC$" strValue="(TOC-Gen (current-node))" />
    <AddObject otype=ToolBookManual styleName="IMIS_ToolBook">
      <AddGroup groupName="Project _Resources" />
      <AddObject otype=MainViewer styleName="MainViewer">
        <ProcessGrove
          command="process-matching-children PLANTLEVEL" />
        <AddGroup groupName="IMIS_MiscViewersContent" />
      </AddObject>
      <AddGroup groupName="IMIS_MiscViewers" />
    </AddObject>
  </AddObject>
</ElementRule>
```

(E) Associated Node: ROI

```
<ElementRule context="(Card CardX AnyDocX Figure AIUDoc ROI)">
  <DefineVar name="$AiyName$"
    strValue="(getattr NAME (current-node))" />
  <CaseExpr key="(cardtype (current-node))">
    <CaseClause matchval="GfxOnly" ...></CaseClause>
    <CaseClause matchval="TextByGfx">
      <CaseExpr key="(ROI-TYPE (current-node))">
        <CaseClause matchval="polygon">
          <AddObject otype=Polygon styleName="GfxContent-AIU-Poly"></>
        </>
        <CaseClause matchval="callout" ...></>
        <CaseClause matchval="NameCallout" ...></>
        ...
      </CaseExpr>
    </CaseClause>
    <CaseClause matchval="else">
      <EmptySosofo>
    </CaseClause>
  </CaseExpr>
</ElementRule>
```

FIG. 16



*FIG. 17*

```
(element(Card CardX CardTitle)
  (sosofo-append
    (makeFODfo F0type:"DefineVar"
      F0name:"$CardTitle_RTF$"
      F0instruction:(RTF-TitleGen(current Node)))
    (case(cardType(current Node)))
      (("GfxOnly")
        (makeFODfo F0type: "StartTag"
          F0name: "Field"
          F0instruction:(AttributeGen GfxOnlyTitle)))
      (("TextByGfx")
        (makeFODfo F0type: "StartTag"
          F0name: "Field"
          F0instruction:(AttributeGen TextByGfxTitle)))
      (else
        (makeFODfo F0type: "StartTag"
          F0name: "Field"
          F0instruction:(AttributeGen TextByGfxTitle)))
    )
  )
)
```

*FIG. 18*

```
(define (AttributeGen type)
(case type
  (("TextByGfxTitle")
   (string-append
    " FontSize=\\"15\\" "
    " FontStyle= \"bold\" "
    " FontColor= \"0,0,255\" "
    " RGBFILL=\\\"255,255,255\\\" "
    " TRANSPARENT=\\\"true\\\" "
    " VERTICES=\\\"180,1395,1150,1305\\\" "
    " RICHTEXT=\\\"$CardTitle_RTF$\\\" "
    " FONTCFACE=\\\"Times New Roman\\\" "
    " ACTIVATED=\\\"true\\\" "
    " BASELINES=\\\"false\\\" "
    " BORDERSTYLE=\\\"none\\\" "
    " FIELDTYPE=\\\"wordWrap\\\" "
    " SCROLL=\\\"0\\\" "
    " SPACING=\\\"1\\\" "
    " INDENTS=\\\"0,0,0\\\" "
    " TABSPACING=\\\"360\\\" "
    " TABTYPE=\\\"left\\\" "
    " TEXTALIGNMENT=\\\"left\\\" "
    " NAME=\\\"TitleField\\\""))
  (("GfxOnlyTitle")
   ...))
...
)

(define (makeFODfo #:key F0type F0name F0instruction)
(case F0type
  (("StartTag")
   (make FOD-Instruction
         data: (string-append "<" F0name F0instruction "> </>")))
  (("DefineVar")
   (make FOD-Instruction
         data: (string-append "<DefineVar name=\"F0name\" value=\" F0instruction >")))
  ((("EndTag")
   (make FOD-instruction
         data: (string-append "</>")))
...
(else
  (make FOD-instruction
        data: (string-append "newFlowObjecttype")))
```

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**FIG. 19**

**CONFIDENTIAL**

```
<CardFormattingBook property=...>
  <Resource property=...>...</Resource>
  <Resource property=...>...</Resource>
  ...
  <MainViewer property=...>
    <StartBkgnd property=...>
      <Object property=...>
        ...
        <StartPage property=...>...</StartPage>
        <NextPage property=...>
          <Field Name="TitleField"
                TextAlignment="left"
                TabType="left"
                TabSpacing="360"
                Scroll="0"
                FieldType="wordwrap"
                BorderStyle="none"
                BaseLines="false"
                Activated="true"
                Fontface="Time New Roman"
                Vertice="180,1395,1150,1305"
                Transparent="True"
                RichText=
                  "(\rtf1\anai \deff5\deflang1033
                   (\fonttb1
                    (\f1\froman\fcharset2\fprg2 Symbol;)
                    (\f2\ftech Marlett;)
                    (\f4\froman\fcharset0\fprg2 Times New Roman;)
                    (\f5\fswiss\fcharset0\fprg2 Arial;)
                    (\f10\fswiss\fcharset0\fprg2 System;))
                   (\colorhl1,\red0\green0\blue0,\red0\green0\blue255,
                    \red255\green0\blue0,\red255\green255\blue255;)
                   \pard\plain \f4\fs20 (\b\i\f5\fs36\of1 co2 Purge System 1)
                  )"
                RGBFill="255,255,255"
                fontsize="15"
                fontStyle="bold"
                rgbStroke="0,0,255"
              >
            </NextPage>
            <NextPage property=...>...</NextPage>
            ...
            </StartBkgnd>
            <NextBkgnd property=...>...</NextBgrnd>
            ...
            <MainViewer>
              <Viewer property=...>...</Viewer>
            ...
          </CardFormattingBook>
```

**FIG. 20**

```
<CardFormattingBook property=...>
  <Resource property=...>...</Resource>
  <Resource property=...>...</Resource>
  ...
  <MainViewer property=...>
    <StartBkgrnd property=...>
      <Object property=...>
      ...
      <StartPage property=...>
        <Object property=...>
        ...
        </StartPage>
        <NextPage property=...>
          <Object Property=...>
          ...
          </NextPage>
          <NextPage property=...>
            <Object property=...>
            ...
            </NextPage>
            ...
            </StartBkgnd>
            <NextBkgnd property=...>...</NextBkgnd>
            ...
            </MainViewer>
            <Viewer property=...>...</Viewer>
            <Viewer property=...>...</Viewer>
            ...
</CardFormattingBook>
```